

Claims

B) 1. (original) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

- (a) in a first registration, providing the mobile station with a permanent mobile station ID;
- (b) in a second registration, receiving the permanent mobile station ID from the mobile station; and
- (c) communicating programming data to the mobile station.

AX 2. (original) The method recited in claim 1, wherein said first registration comprises the steps of:

- (a) receiving a temporary activation mobile station ID from a mobile station;
- (b) verifying the temporary activation mobile station ID; and
- (c) communicating a permanent mobile station ID to the mobile station.

3. (original) The method recited in claim 2, wherein said second registration comprises the steps of:

- (d) receiving the permanent mobile station ID from the mobile station;
- (e) verifying the permanent mobile station ID; and
- (f) communicating programming data to the mobile station.

4. (original) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

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- (a) receiving a temporary activation mobile station ID from a mobile station;
  - (b) verifying the temporary activation mobile station ID;
  - (c) communicating a permanent mobile station ID to the mobile station;
  - (d) receiving the permanent mobile station ID from the mobile station;
  - (e) verifying the permanent mobile station ID; and
  - (f) communicating programming data to the mobile station.

5. (original) The method recited in claim 4, wherein step (a) further comprises the steps of receiving the temporary activation mobile station ID and an ESN of the mobile station at a mobile switching center, and sending a registration notification to an over-the-air activation function; and step (b) further comprises sending a registration notification containing the permanent mobile station ID from the over-the-air activation function to the mobile switching center.

6. (original) The method recited in claim 5, wherein step (d) further comprises receiving the permanent mobile station ID and ESN from the mobile station at the mobile switching center; and step (e) further comprises the mobile switching center sending a registration notification to a home location register assigned to the permanent mobile station ID.

7. (currently amended) The method recited in claim 6, wherein step (f) comprises:  
the over-the-air activation function sending programming data to the mobile switching center identified by the home location register;

the mobile switching center sending a SPACH notification of R-data to the mobile station;

the mobile switching center receiving SPACH confirmation from the mobile station;

the mobile switching center sending programming data to the mobile station;

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the mobile switching center receiving from the mobile station an acknowledgement of receipt of the programming data; and

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the mobile switching center notifying the over-the-air activation center function of a successful download of programming data to the mobile station.

8. (original) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

(a) receiving a temporary activation mobile station ID and ESN from a mobile station at a mobile switching center and sending a registration notification to an over-the-air activation function;

(b) verifying the temporary activation mobile station ID and sending a registration notification from the over-the-air activation function containing the permanent mobile station ID to the mobile switching center;

(c) communicating a permanent mobile station ID to the mobile station;

(d) receiving the permanent mobile station ID and ESN from the mobile station at the mobile switching center;

(e) verifying the permanent mobile station ID; and sending a registration notification to a home location register assigned to the permanent mobile station ID; and

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- (f) the over-the-air activation function sending programming data to the serving mobile switching center identified by the home location register;
  - (g) the mobile switching center sending a SPACH notification of R-data to the mobile station;
  - (h) the serving mobile switching center receiving a SPACH confirmation from the mobile station; and
  - (i) the mobile switching center sending programming data to the mobile station.

9. (new) A method of activating a mobile station for communicating with a telecommunications network, comprising the steps of:

- (a) receiving a temporary activation mobile station ID and an ESN from a mobile station, wherein the temporary activation mobile station ID and the ESN are received at a mobile switching center, and a registration notification is sent to an over-the-air activation function;
- (b) verifying the temporary activation mobile station ID, wherein a registration notification containing the permanent mobile station ID is sent from the over-the-air activation function to the mobile switching center;
- (c) communicating a permanent mobile station ID to the mobile station;
- (d) receiving the permanent mobile station ID and ESN from the mobile station at the mobile switching center;
- (e) verifying the permanent mobile station ID, wherein a registration notification is sent by the mobile switching center to a home location register assigned to the permanent mobile station ID; and
- (f) communicating programming data to the mobile station, wherein:

the over-the-air activation function sends programming data to the mobile switching center identified by the home location register;

the mobile switching center sends a SPACH notification of R-data to the mobile station;

the mobile switching center receives SPACH confirmation from the mobile station;

the mobile switching center sends programming data to the mobile station;

the mobile switching center receives from the mobile station an acknowledgement of receipt of the programming data; and

the mobile switching center notifies the over-the-air activation function of a successful download of programming data to the mobile station.

10. (new) A method of activating a mobile station in a wireless network, comprising:  
transmitting a permanent mobile station ID from the wireless network to the mobile station;

transmitting the permanent mobile station ID from the mobile station to the network; and  
communicating programming data to the mobile station in response to the transmission of the permanent mobile station ID by the mobile station.

11. (new) The method of claim 10, further comprising:  
storing subscription information for a subscriber in a customer database; and  
assigning the permanent mobile station ID to the subscriber associated with the subscription information.

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12. (new) The method of claim 10, wherein the permanent mobile station ID is a permanent MIN.

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13. (new) The method of claim 10, wherein the permanent mobile station ID is a permanent IMSI.

14. (new) The method of claim 10, wherein the programming data communicated to the mobile station includes at least one number assignment module (NAM) parameter.

15. (new) The method of claim 14, further comprising storing the at least one NAM parameter in the mobile station.